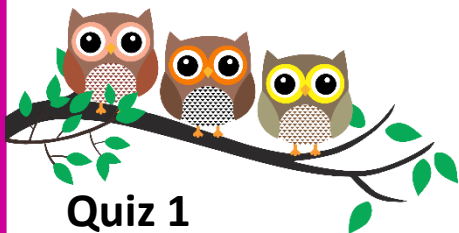


Foundation Interleaving Quiz

Branch 12

Quizzes 1 to 3



Quiz 1

Q	Topic	Σ	R	A	G
1	Estimation				
2	Simultaneous Equations				
3	Perimeter, Area and Volume				
4	Averages				

Home Study Focus

Home Study
Completed

☐

Quiz 2

Q	Topic	Σ	R	A	G
1	Percentage problem.				
2	Expand and Simplify				
3	Angle Problems				
4	Mean from a Table				

Home Study Focus

Home Study
Completed

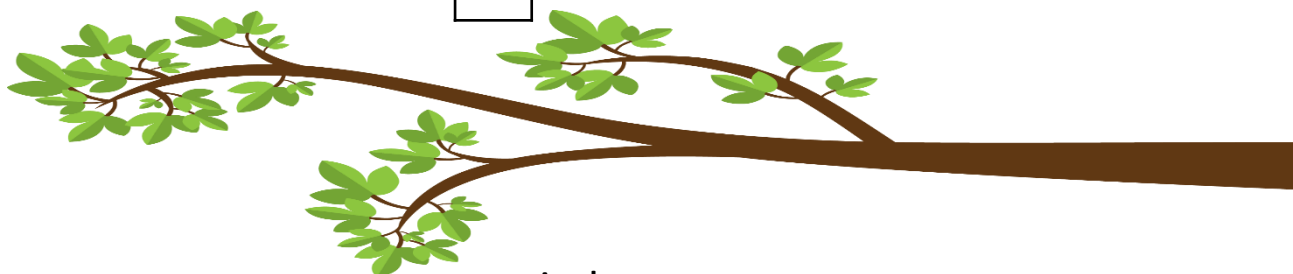
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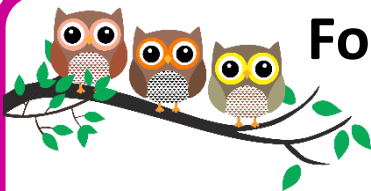
Quiz 3

Q	Topic	Σ	R	A	G
1	Ratio Problem				
2	Form and Solve Equations				
3	Right Angled Trigonometry				
4	Frequency Tree				

Home Study Focus

Home Study
Completed

☐




Foundation Interleaving Quiz



Branch 12 Quiz 1

1) Estimate the value of

$$\frac{\sqrt{396} + 15.9}{3.246}$$

(2 marks)

Answer: _____

2) Miss B buys 22 bags of sweets for her form class.

There are x bags that cost 10p each.

There are y bags that cost 8p each.

a) Write down an equation connecting x and y .
(1 mark)

Answer: _____

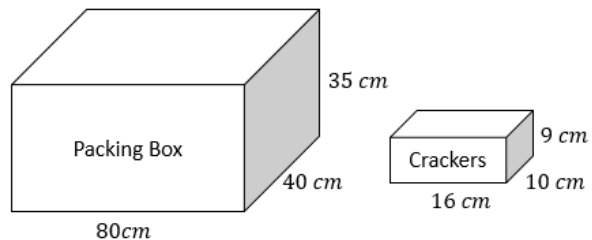
b) The total cost of the bags is £1.92.

Use algebra to work out the values of x and y .

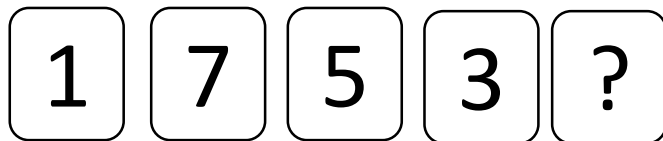
You must show your working out. (4 marks)

$x =$ _____ $y =$ _____

3) George is packing boxes to be shipped to a store. How many boxes of crackers will fit inside each box?
(3 marks)



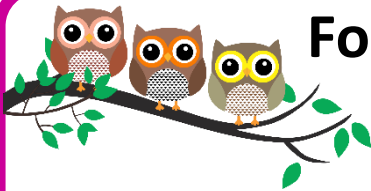
4) David has 5 cards. (5 marks)



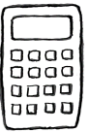
Four of the cards are faced upwards and one is facing downwards

- What would the mystery card have to be to make a mode of 5?
- What would the mystery card have to be to get a mean of 4?
- What would the mystery card have to be to have a range of 8?
- What would the mystery card have to be to have a median of 3?

Q	Topic	Σ	R	A	G
1	Estimation				
2	Simultaneous Equations				
3	Perimeter, Area and Volume				
4	Averages				



Foundation Interleaving Quiz



Branch 12 Quiz 2

- 1) Adiqa wants to invest £400 into savings for 3 years.

Which account should he put his money in?

Account A: Interest 3.5% for the first year and 1.5% each subsequent year.

Account B: Interest 2% Annually (3 marks)

Answer: _____

- 2) a) Expand and simplify
 $x + 2(x - 3)$ (1 marks)

Answer: _____

- b) Factorise Fully $18x^2y + 12y^2$ (2 marks)

Answer: _____

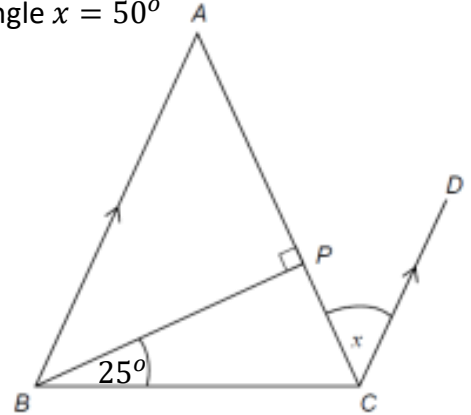
- c) Factorise and solve
 $x^2 + 2x - 35 = 0$ (3 marks)

Answer: _____

- 3) ABC is a triangle with $AB=AC$

BA is parallel to CD.

Show that angle $x = 50^\circ$ (3 marks)



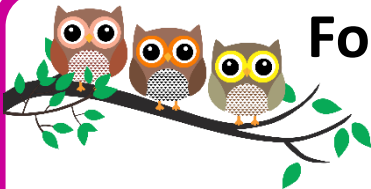
- 4) There are 250 runners in the borders half marathon. (3 marks)

Time (t) in mins	Frequency		
$80 < t \leq 120$	60		
$120 < t \leq 140$	90		
$140 < t \leq 180$	100		
$t > 180$	0		

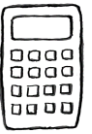
Estimate the mean time

Answer: _____

Q	Topic Answer:	Σ	R	A	G
1	Percentage problem.				
2	Expand and Simplify				
3	Angle Problems				
4	Mean from a Table				



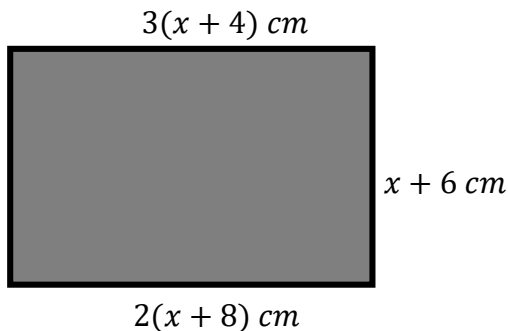
Foundation Interleaving Quiz



Branch 12 Quiz 3

- 1) Adam, Jake and Sally share sweets in the ratio of 3: 5: 7
Adam has 105 less sweets than Sally.
How many sweets does Jake have? **(3 marks)**

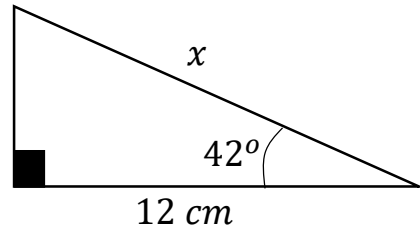
- 2) Here is a rectangle.



What is the perimeter? **(5 marks)**

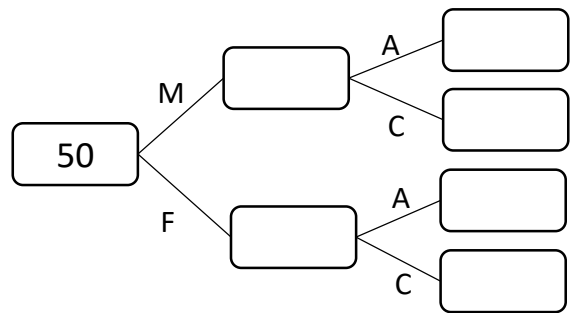
Answer: _____

- 3) Workout the length of x **(3 marks)**



Answer: _____

- 4) 50 passengers were on a bus.
14 people were male.
Male adults to children were in the ratio of 5:2
25 adults in total.
a) Complete the frequency tree. **(3 marks)**



- b) What proportion of the passengers were children? **(1 marks)**

Answer: _____

Q	Topic	Σ	R	A	G
1	Ratio Problem				
2	Form and Solve Equations				
3	Right Angled Trigonometry				
4	Frequency Tree				